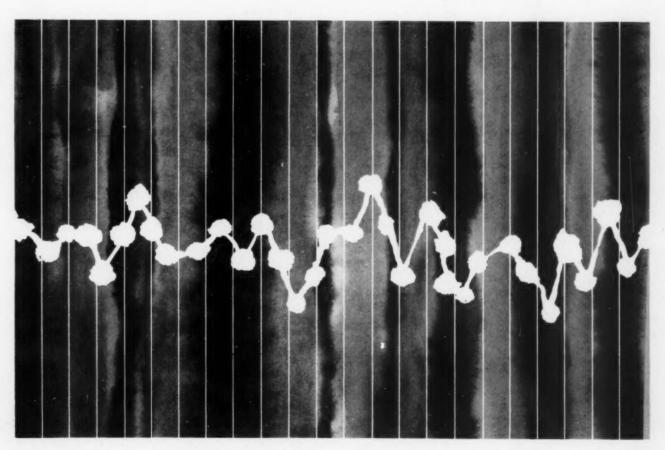
defense indicators

AUGUST 1974





U.S. DEPARTMENT OF COMMERCE · Social and Economic Statistics Administration · BUREAU OF ECONOMIC ANALYSIS



U. S. DEPARTMENT OF COMMERCE

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BUREAU OF ECONOMIC ANALYSIS

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1975.

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

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defense indicators

August 1974 Series ES4 No. 74-8

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6 SESA PROJECTS

for economic analysis

BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

LONG TERM ECONOMIC GROWTH A report for the study of economic trends over a long span of years, 1860–1970.

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by SESA in its analysis of time series are available on a single computer tape.

SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X-11 variant is used for adjusting monthly data and the X-11Q for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the Survey of Current Business.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence shortterm changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense-Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity." presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)

Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (BEA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD) Defense Department gross obligations incurred, procurement

Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accessions, defense products industries (BLS)

Layoffs, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Manufacturers' inventories (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government,

aerospace industries (Census)

Defense Department progress payments outstanding (DOD) Employment in defense products industries, total (BLS)

Employment in defense products industries, production workers (BLS)

Index of aggregate weekly man-hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department manpower, military (DOD)

Defense Department manpower, civilian (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury)

Defense Department personnel compensation (DOD) Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census):

Ratio, manufacturers' unfilled orders to shipments (Census): Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census):

Defense products industries

Defense products

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts-exports

Direct defense expenditures-imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly *Status of Funds* report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The *Status of Funds* report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372 1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments¹ classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366
Aircraft and parts	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).²

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

¹An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

New Features and Changes for This Issue

Appendix C contains historical data for series 648, 657, 659, 661, 677, 678, 685, 688, 691, and 693.

The September issue of DEFENSE INDICATORS is scheduled for release on September 27.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

					Basic	data					Percent	t change		à
Series title	Unit of measure	Aver	1973	4th Q 1973	1st Q 1974	2d Q 1974	May 1974	June 1974	July 1974	May '74 to June '74	June '74 to July '74	4th Q '73 to 1st Q '74	1st Q '74 to 2d Q '.'1	Series num
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
200. Gross national product (BEA)	Ann. rate, bil. dol	1158.0	1208 0	1344.0	1750 0	1302 3					* 11		2.1	200
264. Federal Government purchases of goods and services, national defense (BEA)	do	74.8	74.4	75.3	75.8	76.6		***	•••	***	•••	0.7	1.1	26
613. National defense purchases as a percent of GNP (BEA)1	Percent	6.4	5.8	5,6	5.6	5.5				•••	•••	0.0	-0.1	61:
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
Defense Dept. gross obligations incurred (DOD):				1										
617. Total	Ann. rate, bil. dol	84.7	85.5	85.7	90.3	91.5	83.4	97.6	NA	17.0	NA	5,4	1.3	61
621. Procurement	do	20.3	18.8	18.8	21.7	19.0	16.0	16.5	NA	3.1	NA	15.4	-12.4	62
Government for national defense (Treasury)	do	88.6	89.1	91.0	95.8	NA	91.8	NA	NA	NA	NA	5.3	NA	62
awards for work performed in the U.S. (DOD) 643. Defense Department gross unpaid obligations	Bil. dol., end	36.0	35.3	38.2	36.8	42.7	34.6	41.3	NA	19.4	. NA	-3,7	16.0	625
outstanding (DOD). 648. Mfrs.' new orders, defense products (Census)	of period Ann. rate,	34.2	36.8	36.8	37.4	38.1	38.1	38.1	NA	0.0	NA	1.6	1.9	64:
	bil. dol	19,5	20.5	21.6	22.8	21.4	24.9	21.0	16.0	-15.7	-23.8	5,6	-6.1	648
650. Manufacturers' new orders from the U.S. Government, aerospace industries (Census)	do	14.8	15.9	16,8	19.4	NA						15.5	NA	650
653. Average weekly overtime hours, production workers, defense products industries (BLS) ¹	Hours	2.8	3.1	3.2	2.9	2.9	3.1	3.0	NA	-0.1	NA	-0.3	0.0	653
854. Accessions, defense products industries (BLS) ⁴ .	Number per 100 employees	2.1	2.2	2.2	2.0	2.2	2.2	2.1	NA	-0.1	NA	-0.2	0.2	654
655. Layoffs, defense products industries (BLS) ²	do	0.8	0.6	0,6	0.4	0.7	0.7	0.7	NA	0.0	NA	-0.2	0.3	655
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
657. Output of defense and space equipment (FRB) 659. Mfrs.' inventories, defense products (Census)	1967×100 Bil. dol., end	77.9	80.4	80.9	81.1	81.0	81.6	80.7	81.2	-1.1	0.6	0.2	-0.1	657
	of period	5.1	5.6	5,6	6.0	6.2	6.1	6.2	NA	1.6	NA	7.1	3.3	659
661. Mfrs.' unfilled orders, defense products (Census) 664. Manufacturers' unfilled orders from the U.S.	do	19.1	20.7	20.7	21.7	22.3	22.1	22.3	22.1	0.9	-0.9	4.8	2.8	66
Government, aerospace industries (Census)		15.1	16,4	16,4	17.5	NA	***	•••	***	***	•••	6.7	NA	664
standing (DDD) (D	do	6.7	7.4	7.4	7.8	NA	***	***		•••	•••	5.4	NA	660
670. Total	Thousands do	1,119	1,144	1,150	1,145	1,146	1,146	1,146	1,137	-0.2		-0.4	0.1	67
673. Index of aggragate weekly man-hours, defense products industries (BLS)														
675. Index of aggregate weekly payrolls, production		NA		NA	NA	NA	NA	67.4	NA	NA		NA	NA	67
workers, defense products industries (BLS) Defense Department manpower (DDD): (III)		NA	NA	NA	NA	NA	NA	95.1	NA	NA	NA	NA	NA	675
677. Military	of period	2,348	2,202	2,202	2,187	2,162	2,156	2,162	NA	0.3	NA	-0.7	-1.1	67
678. Civilian	Ann. rate,	1,082					1,053	1,070	NA	1,6		1.6	2.7	678
assistance. 682. Procurement	bil. dol do				79.2	80.5	80.9	82.9	83.1	-4.1			-0.7	68
683. Budget outlays for the national defense function (Treesury)					80.1		82.6	78.6	NA				-0.5	
685. Defense Dept. personnel compensation (DOD) 688. Mfrs.' shipments, defense products (Census)	do	32.0	32.4	32.8	32.6	32.8	32.7	32.6	NA	-0.3	NA.	-0.6	0.6	68
689. Manufacturers' shipments to the U.S. Government,					19.1		19.1	19.2	17.7	0.5	-7.8		0.0	1
aerospace industries (Census)	do						***	***	***	***	***	4.2	NA	681
defense products (Census)	. Ratio	12.5	12.7	13.2	13.6	13.8	13.9	13.9	15.0	0.0	7.9	3.0	1.5	69
defense products (Census)	do	3,2	3.5	3,6	3.7	3,8	3.8	3,9	NA	2.6	NA	2.8	2.7	69
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS	1									1				
546. Transfers under U.S. military agency seles	Ann. rate,													
contracts—exports (BEA)*. 547. Direct defense expenditures—imports (BEA)*	mil. dol do	1,154	2,354	4,184		NA NA	***	***	***	:::		-1,496 136		
696. U.S. Government cash receipts associated with military sales contracts (BEA) ¹					11111							-64		

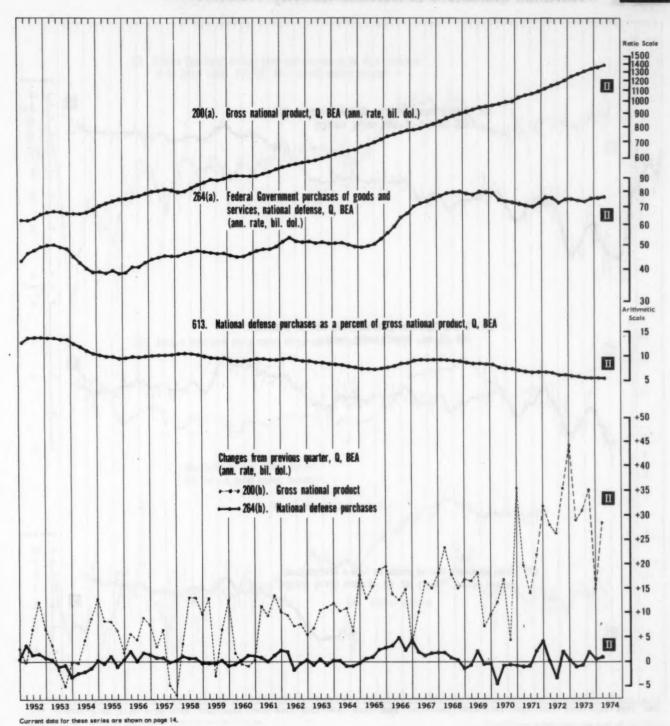
NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where evaluable, annual figures are those published by the source agencies, otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by (a), which appear to contain no seasonal movement.

NA = not available.

¹Differences rather than percent changes are shown for this series.

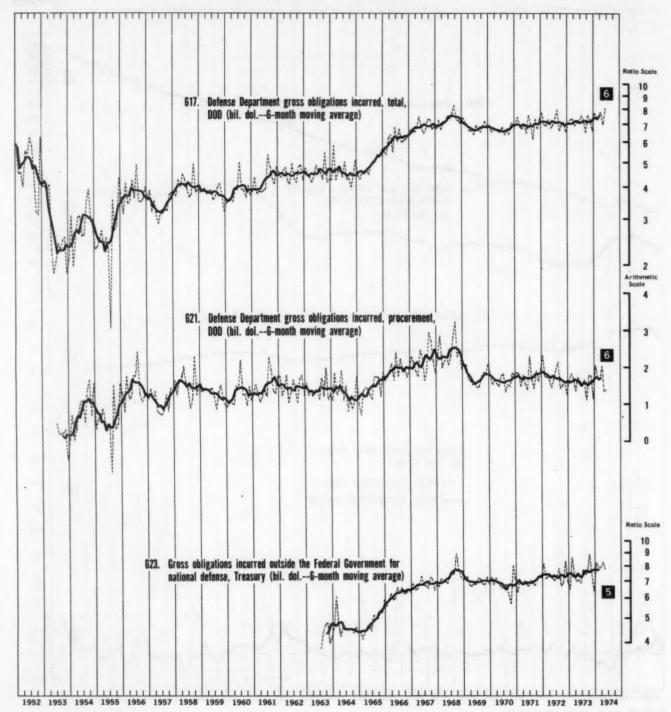
CHART

Gross National Product and National Defense Purchases

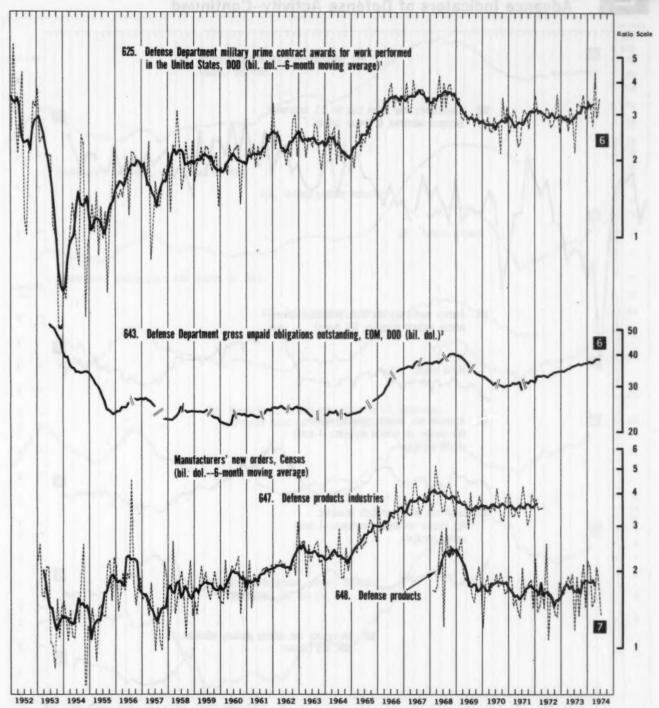




Advance Indicators of Defense Activity



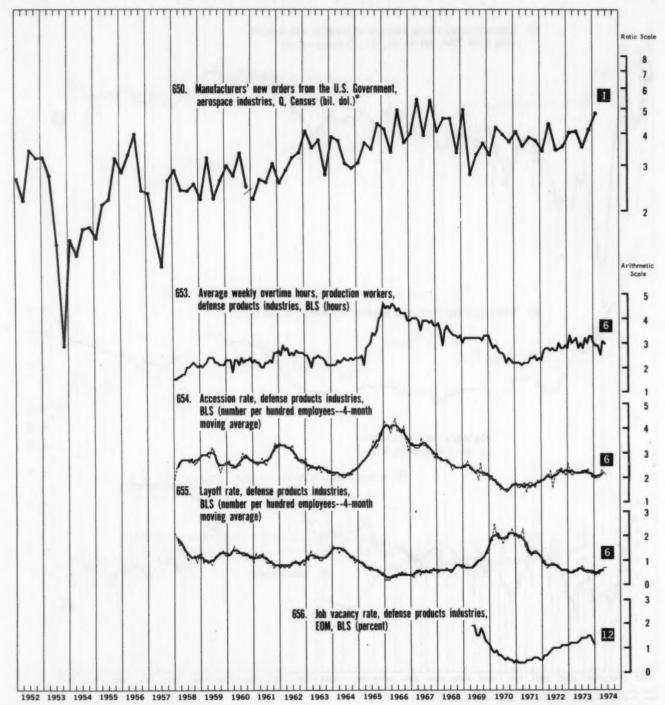




¹Date prior to July 1955 exclude orders written to other Government agencies.

²Date for the following months not evaliable: July of 1956-71; August of 1956-57 and 1963-65; September of 1957, 1963, and 1965; and October and November of 1963, "Contract wards for November 1953-2565 million, December 1953--5390 million, Current data for these series are shown on pages 16 and 20.



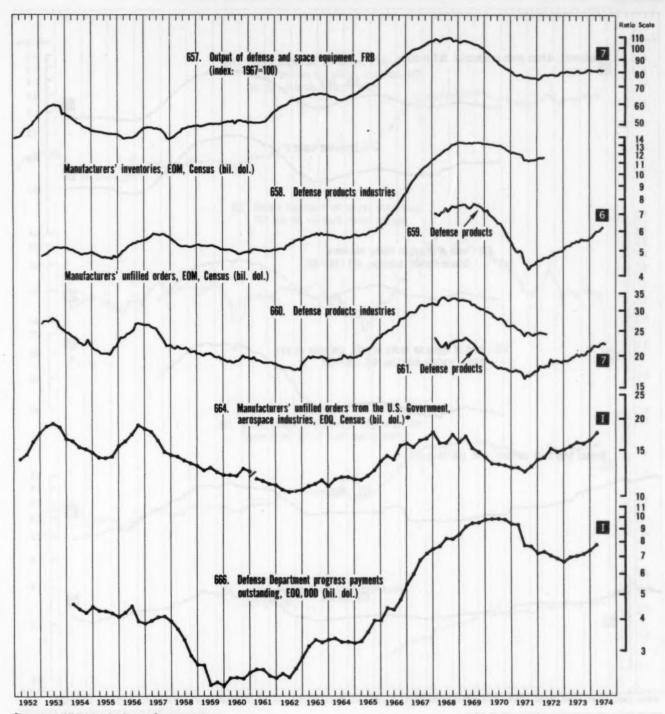


*Data prior to 1961 include orders from non-Government customers.

Current data for these series are shown on pages 20 and 21.

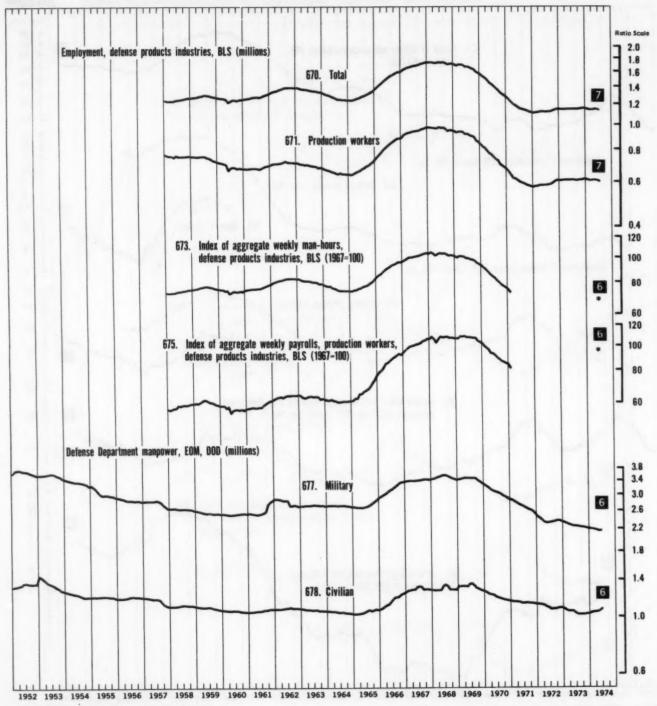
CHART

Intermediate and Final Indicators of Defense Activity



*Date prior to 1961 include orders from non-Government customers. Current date for these series are shown on page 22.



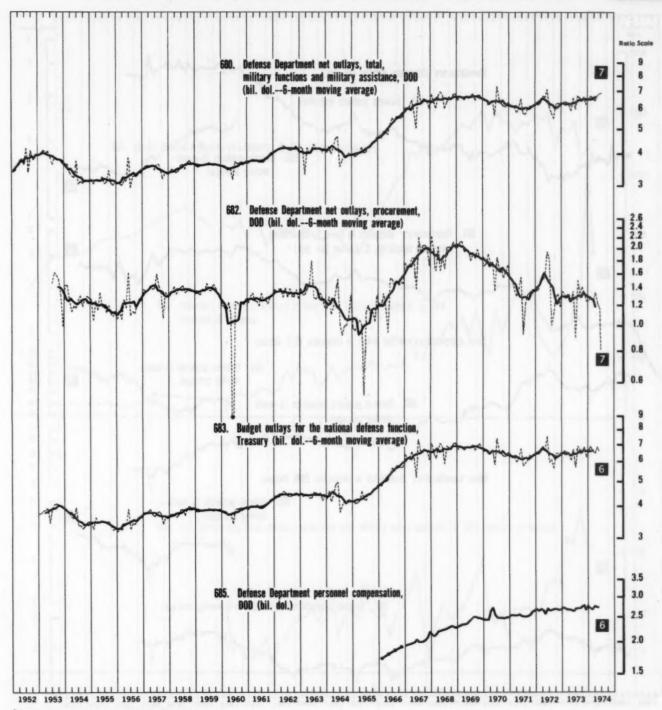


Current data for these series are shown on pages 22, 23, and 24.

^{*} Data for the period March 1971 through May 1974 are not available (see page 23).

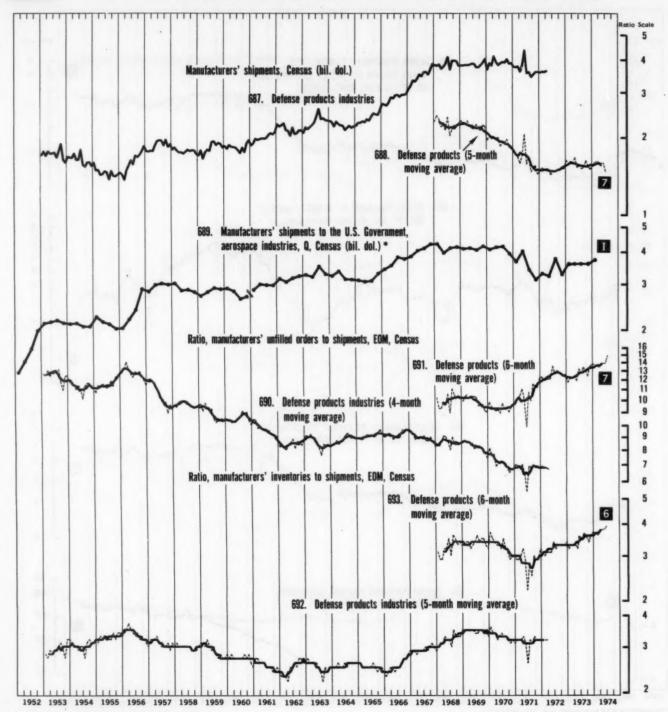
CHART 3

Intermediate and Final Indicators of Defense Activity--Continued



*Net expenditures for procurement, June 1960--\$245 million, Current data for these series are shown on pages 24 and 25.



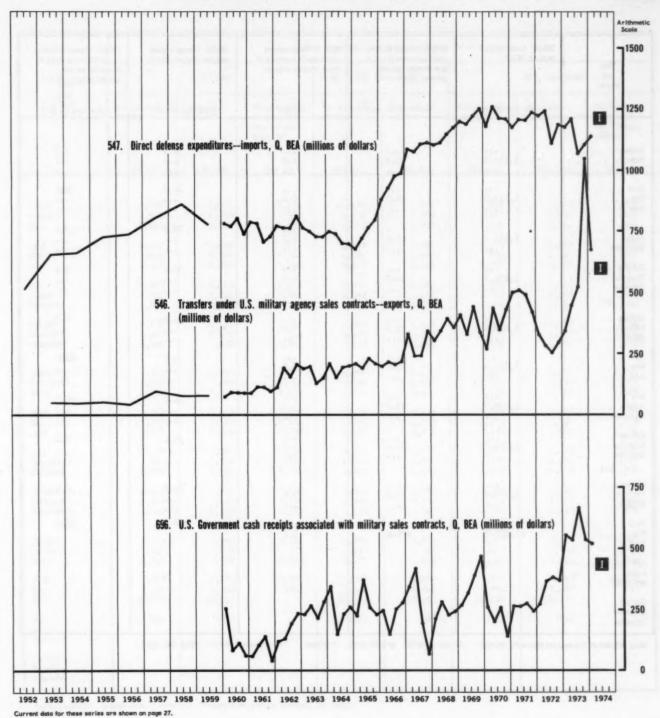


^{*}Lata prior to 1961 include shipments to non-Government customers.

Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components







Gross National Product and National Defense Purchases

Year and month	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1972					
January	•••		***	31.8	3.8
February	1,115.0	75.9	6.8	•,•	***
March	***	•••	•••	***	***
April				28.0	0.0
May	1,143.0	75.9	6.6		
June		***		***	
				26.2	2.2
July	1 1/0 2	72.6	6.2	26.3	-3.3
August	1,169.3	12.0	0.2	***	***
September			1		
October		•••		35.4	2.1
November	1,204.7	74.7	6.2	•••	•••
December	***	•••	•••	***	***
1973					
January			***	44.2	0.3
February	1,248.9	75.0	6.0	***	•••
March	***	•••		•••	***
				20.0	-1.0
April	1,277.9	74.0	5.8	29.0	-1.0
May	1901107	***		***	
00110					
July		***	***	31.0	-0.7
August	1,308.9	73.3	5.6	•••	***
September	•••	***	***	***	***
October				35.1	2.0
November	1,344.0	75.3	5.6		
December	***	•••	•••		•••
1974					
January				14.8	0.5
February		75.8	5.6	14.0	
March		•••	•••		***
Andl				r28.5	r0.8
April		r76.6	5.5		
June					
July					
August					
September					
October		Value of the second			
November		TV N I N IN IN			
December					

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 5.)



Advance Indicators of Defense Activity

			Defe	nse Department gros	s obligations incurre	d, DOD		
Year		617. Total		619. 0	perations		621. Procuremen	t
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving averag of seasonally adjusted data- 6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972								
January	7,772	7,721	7,134	4,623	4,572	2,534	2,329	1,887
February	6,542	6,956	7,133	3,990	4,338	1,667	1,755	1,845
March	6,445	6,854	7,139	4,170	4,375	1,470	1,744	1,816
April	6,455	7,290	7,073	4,437	4,361	1,278	1,660	1,768
	5,813	6,729	7,005	4,084	4,323	993	1,448	1,704
	9,429	6,889	7,166	5,110	4,396	2,975	1,670	1,771
July	7,769	7,310	7,123	4,933	4,410	1,310	1,949	1,719
	7,810	7,921	7,065	4,559	4,456	1,767	2,158	1,694
	6,899	6,599	7,127	4,345	4,516	1,582	1,432	1,722
October	7,178	6,941	7,067	4,647	4,419	1,757	1,507	1,656
	6,489	7,102	7,014	4,193	4,488	1,556	1,617	1,603
	6,066	6,530	6,904	4,027	4,456	1,456	1,274	1,550
January February March	7,414	6,990	7,023	4,688	4,494	1,815	1,631	1,595
	6,691	7,260	7,011	4,097	4,656	1,785	1,838	1,569
	6,716	7,313	7,009	4,174	4,427	1,435	1,704	1,588
April	6,342	6,873	7,096	4,522	4,445	1,028	1,349	1,648
	5,997	7,086	7,183	4,195	4,393	1,171	1,730	1,623
	9,327	7,054	7,190	5,122	4,471	2,871	1,633	1,596
July	8,180	7,510	7,052	5,334	4,679	1,019	1,483	1,495
	7,505	7,304	7,162	4,634	4,552	1,393	1,676	1,568
	6,289	6,486	7,197	4,201	4,429	1,168	1,099	1,575
October	8,074	7,533	7,120	5,024	4,716	2,105	1,788	1,494
	6,917	7,293	7,160	4,346	4,652	1,714	1,771	1,593
	6,041	6,597	7,172	4,133	4,643	1,321	1,149	1,599
January February March	8,113	7,750	7,334	4,991	4,714	2,337	2,077	1,689
	6,826	7,375	7,377	4,187	4,758	1,677	1,708	1,731
	6,613	7,458	7,320	4,377	4,699	1,381	1,642	1,658
April	7,375 6,104 p9,977	7,787 6,952 p8,131	p7,576 (NA)	4,982 4,434 p6,113	4,804 4,662 p5,415	1,546 894 p2,407	2,040 1,330 pl,379	pl,696 (NA)
July	(NA)	(NA)		(NA)	(NA)	(NA)	(NA)	
October November December					Y-			

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 6.)



	623. Gross obli outside the Fed ment for nation				Defense Departme work perfor	ent military prime med in the United	contract awards f States, DOD	or	
Year	Treasury	,		625. Total		626.	Aircraft		le and space tems
end month	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mit. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.
1972			-						
January	8,256 7,168 7,294	7,399 7,444 7,421	3,210 2,499 2,871	3,520 2,982 3,025	3,048 3,112 3,061	634 469 726	1,981	359 410 473	1,395
April	7,401 7,196 7,037	7,392 7,239 7,355	2,167 2,204 5,574	2,985 2,786 3,154	3,075 3,001 2,944	471 367 1,586	2,129	257 209 481	1,255
July	7,335 7,867 6,707	7,257 7,177 7,381	3,415 2,593 2,815	3,074 2,638 2,725	2,894 2,887 3,021	955 529 523	1,940	681 326 481	1,154
October	6,923 8,416 6,977	7,371 7,231 7,371	3,008 2,997 2,611	2,946 3,589 2,532	2,917 2,876 2,919	395 427 612	1,584	516 491 359	1,283
January February March	6,496 8,706 7,421	7,490 7,501 7,281	2,578 2,418 2,841	2,824 2,899 2,947	2,956 2,893 2,824	728 328 721	1,942	377 297 504	1,306
April	6,986 7,098 p6,877	p7,264 p7,477 p7,266	1,854 2,489 5,122	2,568 3,171 2,897	2,884 2,765 2,828	122 866 1,243	1,948	233 129 349	967
July	7,773 7,441 7,588	p7,294 p7,619 p7,672	2,357 3,224 3,309	2,106 3,276 3,222	2,873 2,975 3,032	396 611 867	1,804	207 921 435	1,200
October November December	8,935 7,417 6,396	7,592 r7,674 r7,746	3,198 2,967 2,944	3,176 3,515 2,850	3,024 3,236 3,214	939 68 6 316	2,150	368 283 563	1,138
January February March	r8,264 7,874 7,819	r7,784 r7,673 7,712	3,084 2,613 2,602	3,378 3,141 2,677	3,123 3,317 3,212	1,093 598 517	2,424	206 305 255	84,
April	8,270 7,647 (NA)	(NA)	3,127 2,250 6,086	4,343 2,881 3,440	3,310 (NA)	459 308 502	1,104	303 297 323	1,271
July			(NA)	(NA)		(NA)		(NA)	
October									

NA=not available; p=preliminary; r=revised, *Indicates series shown in charts. (See pages 6 and 7.)



			Defense Department in the	military prime contract e United States, DOD-0	awards for work perform Continued	ned	
Year and	628. Ships, not seasonally adjusted	629. Weapon	ns and ammunition	630. Electronic	and communications uipment	631. Co	mbat vehicles
month		Not seasonally adjusted	Seasonally adjusted	Not sassonally adjusted	Sessonally adjusted	Not sessonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.
1972							
January	851	257		307			
February	132	250	779	324	1,083	13	***
March	165	225		347	1,005	13	51
April	59	235		248		37	
May	89	225	734	272	959	17	102
	194	448		731		72	103
July	160	41		234		6	
September	370	82	562	215	931	18	131
1000	311	166	•••	298		140	131
October	276	292		302		15	
December	266	269	614	401	937	40	98
1973	148	236	•••	228		33	***
January	84	207		214		14	
February	378	226	658	215	939	11	60
	85	195	•••	420		11	
April	82	150		237		12	
May June	78	184	725	351	959	15	46
	139	566	•••	654	***	54	65
July	337	21		131		50	
August	220	81	436	354	990	50 24	40
September	203	114		313	***	27	80
October	161	105		248		224	
November	465	106	310	392	900	116	02.4
December	588	192		261	900	21 56	214
lanuary	52	105					
February	212	135	***	311		102	***
March	103	142	541	415 206	1,013	5	253
April	190	170		200	•••	40	***
Asy	155	123	680	403 270	7 770	129	***
une	1,175	554	000	732	1,110	98 404	502
uly	(NA)	(NA)		(NA)			
August				(104)		(NA)	
October							
lovember							

NA=not available; p=preliminary; r=revised.



				in the United Stat	es, DOD-Continued			
Year	632. Oth	er hard goods	633. S	Soft goods	634. Co	onstruction	635.	Services
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.
1972								
January	92		115	***	74	***	135	
February	135	401	121	516	177	434	148	697
March	135		125		144		143	
					2.00		118	
April	132	***	120	***	147	***	163	***
May	169	506	155	551	174	440		737
June	399	***	141	***	470	***	440	
lade	62		545		138		347	
July	106	/10	179	557	103	465	325	622
August	111	418	127		64		167	022
John Comment of the C	111	***	12,	***	04	***	1	1.
October	107		111		77		571	
November	111	318	85	539	88	368	132	799
December	115		358		69		155	****
1973								
January	140		141		103		154	
February	141	458	112	519	205	484	140	755
March	130	4,70	102	227	131	404	152	
mutual	1,0		202					
April	145		113		153		195	***
May	128	480	97	488	151	442	137	776
June	393		158		493	***	446	
					1		212	
July	65	***	489	***	34	200	341	652
August	117	432	177	553	111	377	265	653
September	106	***	186	***	101	***	252	***
October	133		154		147		388	
November	142	365	235	600	54	450	161	663
December	108		228		86	***	178	
1974	-	1						
	128		297		90		204	
January		167	145	1,374	52	258	138	900
February	111	467	487	1,2/4	92		181	
maiul	179	***	407					1
April	294		344	***	248	***	166	1 :::
May		564	214	1,081	58	504	168	846
June	352		256		604		524	
	((274)		(NA)		(NA)	
July			(NA)		(NA)		(MA)	
August								1
September								
October								
November								
December		1	1				1	

NA=not available; p=preliminary; r=revised.



-,		Defense Department in th	nilitary prime contract a e United States, DOD-(wards for work perfore Continued	ned	prime cont	lepartment military ract awards for	
Year	636. Contrac	ts under \$10,000		onal and nonprofit titutions	638. Civilian Health and Medical Program of the Uniformed	work outside the United States, DOD		
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1972						1/0		
January	327	***	46	***	***	169	100	
February	289	942	37	155		130	492	
March	317		58	***		106		
April	300		43			82	:::	
May	318	901	46	187	***	95	536	
June	516	***	96			290	***	
			87		3011	368		
July	159	954	61	220	***	278	545	
August	279		79	220	***	195	***	
September	348	•••						
October	277		69	100	0	142	455	
November	313	911	114	192	260	99	422	
December	255	•••	43	***		,,		
1973					21	156		
January	341	3 003	41	152	34	151	527	
February	320	1,003	45		13	125		
March	334	•••	4,5					
April	356		46	***	10	213	615	
May	319	977	35	168	-1	83	645	
June	551	***	76		0	264	***	
July	225		61		0	368		
August		997	123	259	10	244	497	
September		***	86		229	159		
	22.0		85		35	194		
October		1,059	87	169	70	240	833	
November		1,059	29		13	186		
1974	1						115	
January	327		76		63	160	***	
February		996	55	224	0	114	594	
March		***	58	•••	13	198	***	
Ancil	384		37		0	80		
April	000	1,066	38	156	0	94	559	
June	500		70		20	333		
	(***)		(are)		(NA)	(NA)		
July			(NA)		(NA)	(na)		
October November		3						

NA=not available; p=preliminary; r=revised.



*		Defense Dep	artment gross unpa	id obligations out	standing, DOD			nufacturers' ers. defense	650. Manufac turers' new
Year	643.	Total	644. 0	perations	645. Pr	ocurement		ers, derense ets, Census	orders from th U.S. Govern- ment, aerospa
and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	industries, Census, seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972									
January February March	33,734 33,554 32,480	32,879 32,832 32,742	5,303 5,021 4,635	4,998 5,011 4,864	21,702 21,877 21,637	21,131 21,364 21,680	2,241 1,384 1,460	1,692 1,680 1,612	3,399
April	32,152 30,675 31,347	32,976 32,772 32,417	4,439 3,891 4,211	4,727 4,323 4,700	21,360 20,672 20,982	21,774 21,578 20,692	1,724 1,430 2,577	1,803 1,608 1,650	4,369
July	32,546 33,684 34,563	33,109 33,350 33,985	4,739 5,043 5,349	4,881 4,807 5,104	20,570 20,813 21,237	20,820 21,347 21,280	1,074 1,635 1,540	1,663 1,602 1,583	3,453
October	35,251 35,009 34,601	34,026 34,255 34,225	5,845 5,671 5,438	5,196 5,270 5,384	21,645 21,836 22,023	21,537 21,663 21,634	1,356 1,319 1,806	1,455 1,546 1,545	3,585
January	35,171 35,287 34,766	34,280 34,426 34,976	5,741 5,589 5,273	5,381 5,523 5,586	22,326 22,721 22,469	21,718 21,953 22,291	1,618 1,633 1,804	1,589 1,680 1,758	r4,060
April	34,297 33,409 34,621	35,140 35,693 35,877	5,424 5,227 5,301	5,807 5,886 6,044	22,044 21,753 22,806	22,244 22,565 22,558	1,900 1,789 1,956	1,783 1,709 1,754	r4,095
July	e35,500 37,069 36,829	e36,188 36,666 36,285	e6,200 6,754 6,719	6,420 6,454	e22,100 22,432 22,195	e22,620 22,960 22,556	1,175 1,898 1,338	1,676 1,664 1,720	r3,568
October	38,039 37,680 37,244	36,682 36,869 36,839	7,519 7,193 7,064	6,660 6,673 6,994	22,679 22,877 22,932	22,656 22,763 22,615	1,827 2,124 1,450	1,635 1,803 1,831	r4,199
January February March	38,249 37,963 37,249	37,280 37,001 37,436	7,425 7,055 6,779	6,959 6,964 7,189	23,791 24,032 23,847	23,143 23,175 23,634	2,183 2,064 1,462	1,852 1,802 1,794	p4,862
April	37,264 35,601 p36,725	38,141 38,076 p38,096	7,044 6,476 p6,877	7,550 7,301 p7,850	23,778 23,123 p23,786	23,970 23,987 p23,550	1,527 2,079 rl,752	rl,844 pl,702	(NA)
July	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	pl,330		
October									•

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 7 and 8.)

TABLE 2

Advance Indicators of Defense Activity--Continued

	hours, producti	weekly overtime ion workers, de- industries, BLS	654. Acc	ession rate, defens industries, BLS	e products	655. La	yoff rate, defense industries, BLS	products	656. Job vacancy rate, defense prod
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*	ucts industrie BLS, not sessonally adjusted*
	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Percent)
1972					-				
January	2.4	2.3	1.8	1.9	1.9	1.2	0.9	1.1	0.7
February	2.5	2.7	1.7	1.9	1.9	1.2	1.0	0.9	0.7
March	2.7	2.8	1.9	2.0	2.0	1.0	0.7	0.8	0.8
Ancil	2.5	0.0							
April	2.4	2.8	1.9	2.1	2.1	0.9	0.8	0.8	0.9
May June	2.4	2.7	2.2	2.3	2.0	0.7	0.9	0.8	1.0
Julie ,	2.0	2.0	2.5	1.6	2.0	0.6	0.9	0.8	1.0
July	2.4	2.7	2.2	2.1	2.1	0.6	0.8	0.8	1.0
August	2.7	2.7	2.6	2.3	2.1	0.6	0.7	0.8	1.0
September		3.0	2.5	2.3	2.2	0.6	0.7	0.7	1.1
0-1-1	2.0								
October	3.0	2.8	2.4	2.4	2.3	0.6	0.6	0.6	1.1
November	3.1	2.8	1.9	2.2	2.2	0.6	0.6	0.6	1.1
1973	3.4	2.9	1.5	2.1	2.3	0.5	0.6	0.6	1.1
January	2.9	2.8	2.5	2.6	2.3	0.8	0.5	0.6	1.2
February	3.1	3.3	2.0	2.2	2.2	0.7	0.5	0.5	1.2
March	2.9	3.0	2.0	2.1	2.3	0.7	0.5	0.5	1.2
A = 21							- 1		
April	2.8	3.1	2.0	2.2	2.2	0.6	0.6	0.6	1.2
May	2.9	3.2	2.2	2.2	2.2	0.5	0.7	0.6	1.3
Julie	2.0	2.8	2.9	2.2	2.2	0.5	0.7	0.7	1.4
July	2.7	3.0	2.5	2.3	2.2	0.6	0.8	0.7	1.4
August	2.8	2.8	2.6	2.3	2.2	0.5	0.6	0.6	1.4
September	3.4	3.2	2.4	2.2	2.3	0.4	0.5	0.6	1.5
Outstan									
October	3.2	3.0	2.5	2.4	2.3	0.6	0.5	0.6	1.5
November	3.6	3.3	2.0	2.2	2.2	0.7	0.6	0.6	1.3
	3.7	3.3	1.3	2.0	2.2	0.5	0.6	0.5	1.1
1974									
January	2.9	3.0	2.1	2.1	2.1	0.7	0.4	0.5	(NA)
February	2.8	2.9	1.8	2.0	2.0	0.7	0.5	0.5	
March	2.9	2.9	1.9	2.0	2.1	0.6	0.4	0.5	
April	2.2	2.5	2.1	2.3	2.1	0.6	0.6	0.6	
May	2.8	3.1	2.2	2.2	2.2	0.5	0.6	0.6	
June	p3.0	p3.0	2.8	2.1	(NA)	0.5	0.7	(NA)	
		200			,,		1	(101)	
July	(NA)	(NA)	(NA)	(NA)		(NA)	(NA)		
August									
October									
November								1 - 0	
DOCUMENT	1	1	1		1		1		

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 8.)



,	657. Output of defense and space equipment, FRB.	659. Manufacturers' inventories, defense products, Census,	661. Manufacturers' unfilled orders, defense products,	664. Manufacturers' unfilled orders from the U.S. Gov-	666. Defense Department progress payments out-	670. Employ products indu	ment in defense astries, total, BLS
Year and month	seasonally adjusted*	seasonally adjusted*	Census, seasonally adjusted*	ernment, serospace industries, Census, seasonally adjusted*	standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1972							
January	74.8	4,594	18,206			1,108	1,105
February	76.0	4,627	18,071		***	1.109	1,108
March	77.6	4,706	18,034	14,052	7,297	1,108	1,109
April	78.1	4,720	18,249			1,109	2 226
May	77.7	4,711	18,176	•••	***	1,109	1,116
June	78.1	4,802	19,322	15,233	7,043	1,113	1,116
July	78.3	4,831	18,907			1,113	1,115
August	78.1	4,911	19,076		•••	1,114	1,117
September	77.6	4,937	19,119	14,819	6,866	1,125	1,119
October	77.9	4,978	18,966			1,131	1,128
November	79.6	4,988	18,773		***	1,142	1,137
1973	80.1	5,087	19,070	15,106	6,668	1,146	1,143
January	79.8	5,210	19,060			1,145	1,141
February	80.6	5,248	19,123	***		1,143	1,142
March	80.1	5,266	19,343	rl5,533	6,942	1,139	1,140
April	80.0	5,384	19,659			1,137	1,144
May	79.7	5,384	19,780			1,135	1,143
June	80.1	5,477	20,211	r16,084	7,026	1,142	1,145
July	81.1	5,434	19,824			1,141	1,144
August	79.7	5,555	20,210	***	***	1,142	1,146
September	79.8	5,528	20,013	r15,956	7,139	1,148	1,143
October	80.0	5,531	20,215			1,150	1,147
November	80.9	5,508	20,797	***		1,154	1,150
December	81.9	5,615	20,740	r16,448	7,385	1,155	1,152
January	81.4	5,679	21,372			1,150	1 2200
February	80.9	5,837	21,827		***	1,144	1,147
March	81.0	5,966	21,678	pl7,459	7,781	1,142	1,143
April	80.6	5,978	21,622			1,141	1 7/0
May	r81.6	6,119	22,107	***		1,138	1,147
Julio	r80.7	6,201	r22,261	(NA)	(NA)	r1,143	r1,146
July	p81.2	(NA)	p22,123			pl,134	pl,137
August			F,2-0			1-1-24	1-1-2
October							
November				i			
December							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 9 and 10.)



		fense products industries, workers, BLS		te weekly man-hours, defense industries, BLS		weekly payrolls, product roducts industries, BLS
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Thous.)	(Thous.)	(1967=100)	(1967=10Ö)	(1967=100)	(1967=100)
1972						
January	570	567	(1)	(1)	(1)	(1)
February	573	572	(1)	(1)	(1)	(2)
March	571	572	(1)	(1)	(1)	(1)
April	572	577	(1)	(1)	(1)	(1)
	571	577	(1)	(1)	(1)	(1)
	575	578	(1)	(1)	(1)	(1)
July	575 578 587	578 581 582	(1) (1) (1)	(1) (1) (1) (2)	(1) (1) (1)	(1) (1) (1)
October	592	589	(1)	(1)	(1)	(1)
	604	599	(1)	(1)	(1)	(1)
	608	604	(1)	(1)	(1)	(1)
January February March	606	602	(1)	(1)	(1)	(1)
	606	604	(1)	(1)	(1)	(2)
	603	605	(1)	(1)	(1)	(1)
April	601	606	(1)	(1)	(1)	(1)
	599	605	(1)	(1)	(1)	(1)
	603	606	(1)	(1)	(1)	(1)
July	603	607	(1)	(1)	(1)	(1)
	601	604	(1)	(1)	(1)	(1)
	608	603	(1)	(1)	(1)	(1)
October November December	610	607	(1)	(1)	(1)	(1)
	611	606	(1)	(1)	(1)	(1)
	615	611	(1)	(1)	(1)	(1)
1974 January February March	611	608	(1)	(1)	(1)	(1)
	606	604	(2)	(1)	(1)	(1)
	603	605	(1)	(1)	(1)	(1)
April	602	607	(1)	(1)	(1)	(1)
	599	r606	(1)	(1)	(1)	(1)
	600	r605	r67.2	167-4	r94.0	r95.1
July	p590	p5%	(NA)	(NA)	(NA)	(NA)
October						

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 10.)

Data for the ordnance and accessories component of this series (SIC Code 19) are being revised by the source agency for the period March 1971 through May 1974 to correct processing errors. The corrected data for this period are expected to be available in December when the source agency introduces routine benchmark revisions. This series will be recalculated to include all revisions and corrections at that time. In the interim, data will not be shown for the aforementioned period.



	Defense Departmen	t manpower, DOD		Defense	Department net outlays	, DOD	
	677. Military, not seasonally adjusted*	678. Civilian, not seasonally adjusted*	680. Tota	l, military functions and assistance	military	681. Oper	ations
Year and month			Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
lanuary	2,462 2,426 2,385	1,119 1,117 1,112	5,973 6,128 6,944	6,280 6,205 6,341	6,209 6,306 6,398	3,971 4,013 4,307	4,144 4,069 4,112
April	2,341 2,319 2,323	1,107 1,090 1,083	6,539 6,911 8,769	6,722 6,623 7,130	6,550 6,521 6,448	4,294 4,535 4,271	4,248 4,459 3,615
luly	2,332 2,344 2,356	1,068 1,073 1,071	4,987 5,679 5,212	6,107 5,766 5,502	6,308 6,228 6,174	3,972 3,928 3,805	4,436 3,937 3,975
October November December	2,371 2,370 2,348	1,081 1,083 1,082	6,107 6,313 6,063	6,237 6,303 6,232	6,024 6,049 6,151	3,925 4,084 4,012	4,079 4,074 4,093
January	2,334 2,314 2,291	1,073 1,057 1,051	6,388 6,054 6,736	6,256 6,377 6,366	6,295 6,288 6,220	4,119 3,988 4,217	4,107 4,162 4,167
April	2,274 2,256 2,253	1,051 1,051 1,031	6,222 6,213 7,854	6,194 5,896 6,597	6,281 6,235 6,291	4,087 4,033 4,537	3,970 3,946 3,935
July	2,251 2,237 2,232	1,019 1,022 1,019	5,005 6,649 5,967	5,978 6,716 6,598	6,330 6,371 6,503	3,669 4,279 4,027	4,018 4,228 4,316
October	2,227 2,218 2,202	1,022 1,026 1,026	6,527 6,766 5,953	6,444 6,683 6,228	6,441 6,534 6,535	4,105 4,359 4,066	4,156 4,378 4,226
January February March	2,195	1,034 1,039 1,042	6,728 6,384 6,702	6,538 6,717 6,536	6,524 6,527 6,537	4,376 4,137 4,398	4,333 4,313 4,364
April	2,156	1,046 1,053 1,070	6,685 7,204 p7,891	6,458 6,745 p6,910	p6,651 p6,715	4,367 4,718 p4,809	4,221 4,536 p4,273
July		(NA)	p5,980	p6,922		p4,626	p4,915
October							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 10 and 11.)



	Defense De	epartment net outlays, C	00D-Continued		tlays for the national nction, Treasury		epartment personnel sation, DOD
Year	200	682. Procurement		Seasonally adjusted*	Moving average of seasonally adjusted	Not seasonally adjusted	Sessonally adjusted*
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	4	data-6-month*		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
January	1,276	1,372	1,393	6,449	6,425	2,713	2,687
February	1,367	1,391	1,424	6,442	6,517	2,681	2,642
March	1,666	1,476	1,453	6,582	6,585	2,778	2,686
April	1,456	1,528	1,547	6,912	6,774	2,625	2,660
	1,621	1,564	1,620	6,684	6,695	2,638	2,571
	2,390	1,952	1,555	7,574	6,644	2,711	2,700
July	1,675	1,810	1,494	5,976	6,492	2,651	2,654
	975	1,002	1,456	6,136	6,418	2,693	2,669
	1,072	1,111	1,417	5,667	6,387	2,610	2,690
October November December	1,306	1,299	1,290	6,472	6,179	2,636	2,687
	1,254	1,331	1,216	6,499	6,263	2,658	2,666
	1,084	1,189	1,271	6,320	6,347	2,609	2,670
January February March	1,355	1,367	1,301	6,483	6,493	2,811	2,723
	1,243	1,329	1,306	6,641	6,482	2,666	2,709
	1,439	1,291	1,291	6,541	6,415	2,728	2,677
April	1,287	1,330	1,322	6,409	6,489	2,675	2,675
	1,315	1,243	1,245	6,099	6,353	2,736	2,658
	1,649	1,371	1,276	6,761	6,404	2,615	2,639
July	863	907	1,285	5,671	6,434	2,712	2,701
	1,450	1,513	1,300	6,945	6,455	2,735	2,713
	1,239	1,344	1,318	6,718	6,585	2,615	2,712
October November December	1,487	1,425	1,298	6,536	6,504	2,732	2,757
	1,268	1,349	1,357	6,877	6,650	2,765	2,793
	1,124	1,250	1,318	6,276	6,643	2,589	2,642
1974 January February March	1,270	1,262	1,300	6,550	6,621	2,879	2,784
	1,195	1,276	1,289	6,899	6,612	2,651	2,691
	1,313	1,241	1,268	6,588	6,613	2,700	2,669
April	1,382 1,292 pl,357	1,355 1,227 pl,174	pl,256 pl,180	6,484 6,881 6,554	6,659 (NA)	2,750 p2,817 p2,686	2,745 p2,729 p2,719
July		p810		(NA)		(NA)	(NA)
October							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 11.)



		s' shipments, defense s, Census	689. Manufacturers' shipments to the		cturers' unfilled orders ense products, Census		turers' inventories to e products, Census
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data-5-month*	U.S. Government, aerospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Seasonally adjusted *	Moving average of seasonally adjuste data—6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1972							
January	1,475	1,496		12.3	11.8	2.1	20
February	1,519	1,488	3,298	11.9	12.0	3.1	3.0
March	1,497	1,501	3,270	12.0	12.1	3.0 3.1	3.1 3.1
April	1,509	1,492		12.1	12.3	3.1	3.2
May	1,503	1,486	3,225	12.1	12.4	3.1	3.2
June	1,431	1,480	•••	13.5	12.6	3.4	3.2
July	1,489	1,477		12.7	. 12.7	3.2	3.3
August	1,466	1,478	3,767	13.0	12.8	3.3	3.3
September	1,497	1,495	•••	12.8	12.8	3.3	3.3
October	1,509	1,499		12.6	12.7	3.3	3.3
November	1,512	1,531	3,275	12.4	12.5	3.3	3.3
December	1,509	1,546	•••	12.6	12.4	3.4	3.3
January	1,628	1,561		11.7	12.3	2.2	
February	1,570	1,575	w2 500	12.2	12.3	3.2	3.3
March	1,584	1,607	r3,599	12.2	12.2	3.3	3.3
April	1,584	1,587	*	12.4	12.3	3.4	2.2
May	1,669	1,585	r3,607	11.9	12.4	3.2	3.3
June	1,527	1,571	15,007	13.2	12.6	3.6	3.4
July	1,562	1 662		12.7	12.8		
August	1,511	1,561	-2 622	13.4	12.8	3.5 3.7	3.5
September	1,535	1,555	r3,612	13.0	13.0	3.6	3.5
October	1,625	1,543		12.4	13.1	3.4	3.6
November	1,541	1,552	r3,611	13.5	13.3	3.6	3.6
December	1,505	1,567	•••	13.8	13.4	3.7	3.6
1974							
January	1,552	1,564		13.8	13.4	3.7	3.6
February	1,610	1,573	p3,756	13.6	13.6	3.6	3.7
March	1,612	1,591	***	13.4	13.7	3.7	3.7
April	1,586	rl,600		13.6	r13.7	3.8	3.8
May	1,594	p1,572	(NA)	13.9	pl3.9	3.8	(NA)
June	rl,596	-		r13.9		3.9	
July	pl,472			p15.0		(NA)	
October							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 12.)

Defense-Related Balance of Payments Components

*		ler U.S. military agency ts (exports), BEA	547. Direct defense expenditures (imports),		ant cash receipts associated sales contracts, BEA
Year	Not seasonally adjusted	Seasonally adjusted *	BEA, not seesonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
and month					
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972		-			
January	•••				
February	311	326	1,222	237	273
March	•••		•••	***	•••
April	201	201	1 2/2	***	***
May	321	281	1,242	373	365
	•••	***	***	***	***
July	224	***	1 100	***	***
August	224	252	1,109	325	381
	***		***	***	***
October	200	205	1,185	***	***
November	299	295		452	368
1973		•••		***	***
January	•••				
February	326	342	1,175	520	554
March	•••	***	***	•••	
April	509			***	***
May June		446	1,209	544	535
	***	***	***	***	***
July	***	***	2 000	***	:::
August September	466	520	1,067	610	665
	•••	***	***	***	***
October	1 05/	2 000	7 204	***	***
December	1,054	1,046	1,104	616	536
1974			***	***	***
January	***	•••	***	***	
February	p642	p672	pl,138	p487	p520
March	•••		***	***	***
April	***		***		***
May June	(NA)	(NA)	(NA)	(NA)	(NA)
July					()
August September					
October	1000	*			
November					
December	A TOTAL STATE OF				A STATE OF THE PARTY OF THE PAR

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 13.)

Appendix A. SEASONAL ADJUSTMENT FACTORS

	Series title						197	4					
	MONTHLY SERIES	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dofe	nse Department gross obligations incurred:		2 5 5	15/5/	Ibu			7					
-	617. Total ¹	104.7	92.6	88.7	94.7	87.8	122.7	112.8	100.7	101.0	105.7	0/ 9	91.6
	619. Operations ¹	105.9	88.0	93.2	103.7	95.1	112.9	115.5	100.4	94.7	107.9	93.4	
	621. Procurement	112.5	98.2	84.1	75.8	67.2	174.6	69.4	83.7	104.2	118.2		
823	Gross obligations incurred outside the Federal Government	112.0	70.2	04.1	12.0	01.2	1/4.0	07.4	03.1	104.2	110.5	97.1	115.0
ULU.	for national defense 1	104.9	87.6	92.3	95.7	89.8	113.8	113.8	305.1	92.6	108.1	100.2	96 2
625	Defense Department military prime contract awards for	204.7	0,,0	1202	//	0,.0	117.0	11).0		12.00	100.1	100.2	70.2
. U.	work performed in the United States	91.3	83.2	97.2	72.0	78.1	176.9	112.3	98.5	102.4	100.1	84.9	103.3
Defe	nse Department gross unpaid obligations outstanding: ²										7		
	643. Total	102.6	102.6	99.5	97.7	93.5	96.4	98.0	101.1	101.4	103.7	102.2	101.1
	644. Operations	106.7	101.3	94.3	93.3	88.7	87.6	97.1	105.2	104.0	113.1	107.8	
	645. Procurement	102.8	103.7	100.9	99.2	96.4	101.0	97.6	97.7	98.3	100.1	100.5	
648.		94.9	98.1	98.4	87.5	71.2	93.1	178.1	85.4	116.2	104.9		106.
	Average weekly overtime hours, production workers, defense	,-4.	/***	,	-1.02		//	_,,,,,	0,04	22000	20407	71.0	1000,
	products industries ⁴	1	1	.0	3	3	.0	3	.0	.3	.2	.2	.4
854.	Accession rate, defense products industries ⁴	.0	2	1	2	.0	.7	.2	.4	.2	.1	2	7
655.	Layoff rate, defense products industries ⁴	.3	.2	.2	.0	2	2	2	1	1	.1	.1	1
657.	Output of defense and space equipment ³	100.0	99.9	100.4	99.4	99.9	100.7	98.6	98.9	100.1	100.1		101.8
659.		98.6	99.8	101.3	100.6	100.0	99.9	100.2	99.2	99.7	100.6	100.6	
661.		101.0	101.2	101.0	99.8	97.3	96.3	101.0	99.7	100.5	101.0	99.9	
		101.0	707.2	101.0	77.0	21.0	70.5	101.0	77.1	100.)	101.0	77.7	77.0
Emp	oyment in defense products industries: 670. Total	100.3	100.1	99.8	99.5	99.3	99.7	99.7	99.6	100.3	100.2	700 6	100.6
	671. Production workers	100.5	100.2	99.6	99.2	98.8	99.3	99.1	99.6	100.8	100.2		100.8
672	Index of aggregate weekly man-hours, defense products	1000)	200.2	//.0	770~	70.0	11.0	7704	77.0	100.0	100.9	101.0	100.0
0/3.		100.3	99.8	100.0	99.3	99.3	99.8	98.9	99.2	100.4	100.3	101 2	101.7
075	industries	100.)	77.0	100.0	77.2	77.2	77.0	70.7	77.6	100.4	100.5	TOTOS	101.
0/3.	Index of aggregate weekly payrolls, production workers, defense products industries	100.8	99.8	100.1	98.6	98.8	98.9	97.1	98.4	100.7	100.5	102.4	104.3
	nse Department net outlays: 680. Total, militarry functions and military assistance ¹ 681. Operations ¹ 682. Procurement ¹ Budget outlays for the national defense function ¹ Defense Department personnel compensation ¹ Manufacturers' shipments, defense products ³		95.0 95.9 93.7 94.3 98.5 96.4	102.5 100.8 105.8 101.5 101.2 99.5	103.5 103.5 102.0 104.1 100.2 99.6	104.0	114.2 112.5 115.6 114.0 98.8 105.6	86.4 94.1 98.9 89.0 101.4 98.1	95.1 96.9 94.6 94.8 99.0 99.1	93.1 94.8 93.1 92.8 97.6 103.4	102.0 99.3 105.7 102.3 99.1 99.5	97.7 97.4 91.4 97.0 97.6 102.9	97.9 91.7 96.9
	QUARTERLY SERIES		10			IIQ			IIIQ			IVQ	
200	Gross national product ³		96.1			100.9			98.4			104.5	
264	Fed. Govt. purchases of goods and services, national defense 3		99.2			104.9			95.0		-	100.9	
	Transfers under U.S. military agency sales contracts-exports ⁵		-16			63			-54			8	
Defe	nse Department military prime contract awards:												
	626. Aircraft		91.1			114.9			104.1			90.3	
	627. Missile and space systems		90.8			72.6			130.9			106.7	
	629. Weapons and ammunition		96.3			124.5			48.6			129.9	
	630. Electronic and communications equipment		92.0			126.6			81.7			100.1	
	631. Combat vehicles		58.1			125.8			126.2			90.3	
	632. Other hard goods		89.6			139.1			66.5			105.0	
	633. Soft goods		67.6			75.3			154.6			102.9	
	634. Construction		90.6			180.7			65.1			63.8	
	635. Services		58.1			101.4			129.6			109.7	
	636. Under \$10,000		99.3			125.3			83.0			92.5	
	637. Educational and nonprofit institutions		79.5			93.1			104.7			118.6	
			. / . /			/0.1			2,004			1-0-04	
Aer	space industries: 650. Manufacturers' new orders from the U.S. Government		87.1			90.2			123.4			99.3	
	664. Manufacturers' unfilled orders from the U.S. Government .		99.7			96.3			102.5			101.5	
	689. Manufacturers' shipments to the U.S. Government		93.8			102.5			98.9			105.0	
200	U.S. Govt. cash receipts associated with military sales contracts ⁵ .		-34						-55			80	
	U.G. GOVE, COM RECEIPES ASSOCIATED WITH INHITERY SETES CONTRACTS".		-54			9			-22		1	80	

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, *The X-11 Variant* of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department manpower (series 677 and 678) contain no measurable seasonal variation. The series on job vacancy rate, defense products industries (series 656) contains too few observations to be seasonally adjusted.

of months but these gaps were filled with averages of preceding and following months for

purposes of estimating seasonal variation.

3 These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by dividing the seasonally

unadjusted data by the seasonally adjusted data.

These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

⁵This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

¹ Factors are products of seasonal and trading-day factors.
²Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

Series title	Period	ō	cī	T	c	ī/c̄	MCD	Average of run	
	covered				1000			CI	MCD
Defense Department grass obligations incurred:								POT H	
617. Total	Jan. '57-Jan. '74	18.68	7.38	7.29	0.75	9.72	6	1.53	2.3
619. Operations	July '59-Jan. '74	8,33	2.61	2.50	.64	3.88	4	1.72	3.00
621. Procurement	Jan. '57-Jan. '74	45.13	22.23	22.10	1.68	13.19	6	1.49	2.1
223. Gross obligations incurred outside the Federal Government for national						100 64	Index (
defense	July '63-Jan. '74	(NA)	6.94	6.82	.74	9.21	6	1.52	2.4
25. Defense Department military prime contract awards for work performed									
in the United States, total	Jan. '57-Jan. '74	33.17	15.07	14.94	1.32	11.33	6	1.39	2.0
Defense Department gross unpaid obligations outstanding:	1 153 1 134		2 04		0.7	00		0.50	
643. Total	Jan. '57-Jan. '74	2.08	1.36	.90	.91	.99	1	2.58	4.8
644. Operations	Jan. '67 Jan. '74	5.47	2.48	2.16	1.06	2.03	3	2.00	4.8
645. Procurement	Jan. '67-Jan. '74	2.49	1.51	.99	.99	1.00	2	2.15	60 0 0
647. Defense products industries	Jan. '57-Mar. '72	(NA.)	15.11	14.89	.97	15.32	6	1.58	2.3
648. Defense products	Feb. '68-Jan. '74	25.69	19.12	19.01	1.59	11.94	6	1.45	2.0
53. Average weekly overtime hours, production workers, defense products	190. 00-Jan. 74	23.69	19.12	19.01	1.29	11.94	0	1.47	201
industries (hours)	Jan. '58-Jan. '74	.22	.13	.13	.05	2.84	3	2.13	4.
54. Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.39	.16	.15	.05	3.12	4	2.26	3.
iss. Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.17	.13	.13	.04	3.07	4	2.02	4.
56. Job vacancy rate, defense products industries (percant) @	Apr. '69-Dec. '73	.08	(NA)	.07	.05	1.36	2	4.00	7.
57. Output of defense and space equipment	Jan. '54-Jan. '74	(NA)	.98	.48	.79	.60	1	4.07	4.
Manufacturers' inventories:	Out. O'Com. 14	(1str)	.,,,	•40		.00	-	4.01	
658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2.80	2.1
659. Defense products	Jan. '68-Jan. '74	1.89	1.74	1.16	1.27	.92	1	3.00	3.0
Manufacturers' unfilled orders:		2.00			-	***	-		Cont.
660. Defense products industries	Jan. '57-Mar. '72	(NA.)	1.23	.90	.83	1.09	2	2.76	3.
661. Defense products	Jan. '68-Jan. '74	1.93	1.64	1.11	.99	1.11	2	2.77	3.0
Employment in defense products industries:							-		
670. Total	Jan. '58-Jan. '74	.74	.68	.25	.60	.42	1	4.68	4.1
671. Production workers	Jan. '58-Jan. '74	1.02	.86	.43	.69	.63	1	3.62	3.
673. Index of aggregate weekly man-hours, defense products industries	Jan. '58-Jan. '74	.92	.75	.35	.62	.56	1	4.09	4.
75. Index of aggregate weekly payrolls, production workers, defense products									
industries	Jan. '58-Jan. '74	1.61	1.07	.65	.81	.80	1	3.05	3.
Defense Department manpower:									
677. Military (1)	Jan. '57-Jan. '74	.66	(NA)	.26	. 59	oleh	1	4.25	- 40
678. Civilian (1)	Jan. '57-Jan. '74	.55	(NA)	.33	.43	.79	1	4.25	40
Defense Department net outlays:									
680. Total, military functions and military assistance	Jan. '57-Jan. '74	9.06	3.97	3.87	.75	5.18	6	1.71	3.
681. Operations	July '59-Jan. '74	7.57	3.52	3.31	.70	4.75	5	1.61	2.
682. Procurement	Jan. '57-Jan. '74	15.02	11.57	11.44	1.55	7.38	6	1.59	2.
83. Budget outlays for the national defense function	Jan. '57-Jan. '74	(NA)	4.09	4.02	.69	5.82	6	1.58	3.
85. Defense Department personnel compensation	Jan. '67-Jan. '74	2.72	1.40	1.21	.53	2.29	4	2.55	4.
Manufacturers' shipments: 687. Defense products industries	Jan. '57-Mar. '72	(NA)	0.00	0.10	.87	2 05	3	1.64	2
688. Defense products	Jan. '57-Mar. '72 Jan. '68-Jan. '74		2.67	2.49		2.85	5	1.41	3.4
	Jan. 00-Jan. 74	6.98	4.45	4.40	.95	4.02	2	TOOT	601
Ratio, manufacturers' unfilled orders to shipments: 690. Defense products industries	Jan. '57-Mar. '72	(NA)	2.95	2.71	.96	2.82	4	1.90	3.
691. Defense products	Jan. '68-Jan. '74	8.23	5.09	5.05	.93	5.46	6	1.60	3.0
	Jan. 00-Jan. 74	0.23	2.09	2.00	.72	2.40	0	1.00	201
Ratio, manufacturers' inventories to shipments: 692. Defense products industries	Jan. '57-Mar. '72	(NA)	2.84	2.90	.72	4.01	5	2.46	5.
693. Defense products	Jan. '68-Jan. '74	8.05	5.37	5.44	.75	7.20	6	1.76	3.

NA = not available

*Measures for these series are based on actual changes rather than percent changes (see definition below). We indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

"O" is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

 $^{\prime\prime}\overline{C}^{\prime\prime}$ is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

" \overline{I} " is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

" $\overline{l}/\overline{C}$ " measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

Part 2. Quarterly Series

	Series title	Period	ō	CI	ī	c	T/C	aco	Average of run	
		covered							CI	acd
200. Gross natio	onal product	IQ '57-IVQ '73	5.70	1.79	0.32	1.73	0.18	- 1	9.57	9.5
264. Federal Go	vernment purchases of goods and services, national defense	IQ '57-IVQ '73	6.18	2.00	.76	1.71	.45	1	3.05	3.0
546. Transfers u	inder U.S. military agency sales contracts-exports (mil. dol.)	IQ '60-IVQ '73	76.33	54.22	39.30	29.71	1.32	2	1.67	2.3
547. Direct defe	ense expenditures-imports (mil. dol.) (1)	IQ '60-IVQ '73	34.27	(NA)	26.55	21.70	1.22	2	1.83	2.70
613. National de	efense purchases as a percent of GNP (percent)	IQ '57-IVQ '73	.33	.18	.08	.16	.48	1	5.58	5.58
650. Manufactu	rers' new orders from the U.S. Government, aerospace									
industries		IQ '61-IVQ '73	(NA)	16.77	14.80	5.06	2.92	4	1.38	1.6
664. Manufactu	rers' unfilled orders from the U.S. Government, aerospace		(/							
industries		IQ '61-IVQ '73	(NA)	3.75	2.31	2.51	.92	1	2.32	2.3
666. Defense De	epartment progress payments outstanding @	IQ '57-IVQ '73	4.73	(NA)	2.25	4.22	.53	1	2.48	2.4
689. Manufactu	rers' shipments to the U.S. Government, aerospace industries	IQ '61-IVQ '73	(NA)	4.16	3.27	1.99	1.64	2	1.70	2.2
696. U.S. Gover (million d	rnment cash receipts associated with military sales contracts ollars)	IQ '60-IVQ '73	96.62	73.64	56.86	38.62	1.47	2	1.57	2.3

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). measures are based on unadjusted data.

@indicates

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, Cl is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All OCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.

Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected Defense Indicators series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index—Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

						Mont	thly							Quart	terly		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	11 Q	1110	IV Q	Annual
10		648. H	ANUFACTU	RERS! NEW		DEFENSE NS OF DO		, SEASON	IALLY ADJI	STED 1				TOTAL	FOR PERI	00	
968 969 970 971 972 973	2,263 1,195 1,897 2,241	1,675 2,447 1,757 1,897 1,384	1,646 2,660 1,918 1,458 1,460	1,749 1,936 1,613 1,544 1,724	2,538 1,839 1,740 1,394 1,430	2,834 1,825 1,770 1,307 2,577	1,205 1,807 1,941 2,054 1,074	2,934 1,584 1,734 1,540 1,635	2,304 1,501 1,961 1,696 1,540	2,499 1,824 1,811 1,796 1,356	2,301 2,080 1,630 1,838 1,319	2,392 1,782 1,657 1,434 1,806	7,370 4,870 5,252 5,085	7,121 5,600 5,123 4,245 5,731	6,443 4,892 5,636 5,290 4,249	7,192 5,686 5,098 5,068 4,481	23,548 20,727 19,855 19,546
974	WAAH # 407		- ADDED	s, DEFENS	2 200000	TO 4 NO.	UTU MAUTU	C AVERAGE	F 05 054		- HIRTER	2001					
	MANUFACI	UKEKS' N	EW UNDER	DEPENS	(MILLIO	NS OF DO	LLARS)										
968 969 970 971 972 973	2,427 1,759 1,725 1,692	2,333 1,724 1,680 1,680	2,256 1,667 1,641 1,612	2,162 1,665 1,583 1,803	1,941 2,086 1,790 1,609 1,608	2,151 1,942 1,786 1,549 1,650	2,261 1,749 1,793 1,589 1,663	2,386 1,730 1,826 1,631 1,602	2,346 1,770 1,808 1,705 1,583	2,272 1,763 1,789 1,726 1,455	2,449 1,661 1,782 1,757 1,546	2,368 1,690 1,809 1,731 1,545					
		657	. OUTPUT	OF DEFEN	SE AND S	PACE EQUI	IPMENT, S	EASONALL	TRULDA Y.	ED*				AVERAGI	E FOR PER	100	
947	9.9 10.1 12.1	9.8 10.5 12.1	9.6 10.7 12.1	9.6 11.0 11.8	9.5 10.7 12.0	9.4 11.1 12.1	9.4 11.3 12.0	9.3 11.6 11.9	9,3 11.8 11.6	9.6 12.1 11.3	9.8 12.3 11.2	10.0 12.3 11.2	9.8 10.4 12.1	9.5 10.9 12.0	9.3 11.6 11.8	9.8 12.2 11.2	9.6 11.3 11.6
950 951 952	11.1 21.7 43.8	25.0 44.2	11.2 28.4 44.3	11.5 31.2 44.8	11.9 32.2 46.3	12.3 33.9 47.7	12.9 35.9 47.9	14.2 37.1 48.8	15.6 38.2 49.5	16.9 39.9 51.2	18.0 42.1 52.2	19.5 43.0 53.8	11.1 25.0 44.1	11.9 32.4 46.3	14.2 37.1 48.7	18.1 41.7 52.4	13.8 34.0 47.9
953 954 955 956 957	54.6 53.9 46.9 45.2 48.3 44.2	55.8 53.6 46.8 44.7 48.6 44.6	56.8 52.8 46.6 43.8 48.5 45.5	57.6 51.9 46.5 44.1 48.6 46.2	58.6 51.2 46.5 44.2 47.9 46.7	58.9 50.4 46.1 44.2 48.2 48.0	59.4 50.2 46.0 44.2 47.7 48.1	59.0 49.1 45.7 44.7 47.7 48.5	59.0 48.6 45.8 45.2 46.7 48.9	58.4 48.2 45.6 46.3 45.6 48.8	54.6 47.9 45.6 47.1 44.0 49.2	55.0 47.2 45.7 48.1 43.7 49.3	55.7 53.4 46.8 44.6 46.5 44.8	58.4 51.2 46.4 44.2 48.2 47.0	59.1 49.3 45.8 44.7 47.4 48.5	56.0 47.8 45.6 47.2 44.4 49.1	57.3 50.5 46.2 45.2 47.1 47.3
1959 1960 1961 1962 1963	49.5 50.9 51.1 56.7 64.0 64.4	49.0 51.1 50.8 57.6 64.1 63.9	49.2 51.4 50.7 58.4 64.4 63.8	49.5 51.1 50.8 58.9 64.8 63.5	49.9 51.7 50.8 59.3 65.2 62.4	50.1 50.4 50.9 59.9 65.6 62.2	50.3 51.6 51.1 61.0 65.1 62.2	50.0 51.9 51.4 61.9 65.5 62.6	50.2 51.7 52.6 62.0 65.8 63.0	50.2 51.2 53.7 62.2 65.6 63.7	50.1 51.4 55.0 62.9 65.3 64.2	50.5 50.6 56.0 63.1 65.5 64.7	49.2 51.1 50.9 57.6 64.2 64.0	49.8 51.1 50.8 59.4 65.2 62.7	50.2 51.7 51.7 61.6 65.3 62.6	50.3 51.1 54.9 62.7 65.5 64.2	49.9 51.3 52.1 60.3 65.1
1965 1966 1967 1968 1969	65.3 77.1 94.1 105.9 104.3 96.4	65.9 78.2 95.2 107.6 105.3 95.2	67.0 79.0 97.0 106.8 106.1 93.5	67.7 80.8 98.0 105.2 105.6 91.7	69.0 82.4 98.6 106.9 105.1 89.3	69.9 83.8 99.0 108.1 104.2 88.2	71.0 85.1 99.9 108.2 103.4 86.0	71.9 86.2 101.1 108.7 102.4 85.0	72.1 87.5 102.1 108.5 102.1 83.9	73.3 89.0 103.6 105.6 101.2 82.6	74.3 91.0 105.0 106.3 99.6 81.8	75.2 92.3 105.9 105.9 98.7 81.2	66.1 78.1 95.4 106.8 105.2 95.0	68.9 82.3 98.5 106.7 105.0 89.7	71.7 86.3 101.0 108.5 102.6 85.0	74.3 90.8 104.8 105.9 99.8 81.9	70.2 84.4 100.0 107.0 103.2
1971 1972 1973 1974	80.0 74.8	78.3 76.0	77.6 77.6	77.9 78.1	78.2 77.7	76.7 78.1	76.3 76.3	76.3 78.1	76.0 77.6	75.7 77.9	75.9 79.6	75.6 80.1	78.6 76.1	77.6 78.0	76.2 78.0	75.7 79.2	77.5
		659. P	IANUFACTU	RERS! INV	ENTORIES (MILLIC	DEFENS	E PRODUCT	S, SEAS	DNALLY AD	JUSTED"				END	OF PERIOD		
1968 1969 1970 1971 1972	7,009 7,551 7,226 5,185 4,594	6,953 7,597 6,936 5,017 4,627	6,863 7,591 6,836 4,942 4,706	7,066 7,421 6,742 5,016 4,720	7,114 7,340 6,557 4,907 4,711	7,380 7,476 6,415 4,492 4,802	7,140 7,651 6,412 4,427 4,831	7,326 7,566 6,203 4,243 4,911	7,483 7,524 5,984 4,387 4,937	7,430 7,450 5,732 4,418 4,978	7,421 7,314 5,587 4,463 4,988	7,556 7,129 5,434 4,585 5,087	6,863 7,591 6,836 4,942 4,706	7,380 7,476 6,415 4,492 4,802	7,483 7,524 5,984 4,387 4,937	7,556 7,129 5,434 4,585 5,087	7,556 7,129 5,434 4,585 5,087
1974																	TITE
		661. MAN	UFACTURE	RS: UNFIL		RS, DEFE		ICTS, SE	ASONALLY	ADJUSTED			-	END	OF PERIOD		
1968 1969 1970 1971 1972	23,391 22,846 19,081 17,432 18,206	22,640 23,054 18,833 17,606 18,071	21,938 23,475 18,734 17,393 18,034	21,497 23,099 18,333 17,356 18,249	21,798 22,724 18,101 17,049 18,176	22,499 22,377 17,873 16,301 19,322	21,314 22,029 17,967 16,783 18,907	22,224 21,373 17,790 16,645 19,076	22,383 20,708 17,846 16,878 19,119	22,660 20,406 17,691 17,158 18,966	22,767 20,257 17,484 17,444 18,773	22,901 19,836 17,331 17,440 19,070	21,938 23,475 18,734 17,393 18,034	22,499 22,377 17,873 16,301 19,322	22,383 20,708 17,846 16,878 19,119	22,901 19,836 17,331 17,440 19,070	22,901 19,836 17,331 17,440 19,070
1974								-									

¹This series contains revisions beginning with 1968.

²This series contains no revisions but is reprinted for the convenience of the user.

Appendix C. HISTORICAL DATA—Continued

	le le					Mon	ithly							Quar	terly		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	II Q	III Q	IV Q	Annual
		677.	DEFENSE (DEPARTHEN		ER, MILI	TARY, NOT	SEASONA	LLY ADJU	STED				END	OF PERIOD		
948 949 950 951 952	1,400 1,668 1,511 2,620 3,562 3,513	1,404 1,662 1,488 2,794 3,643 3,510	1,399 1,647 1,474 2,962 3,675 3,518	1,403 1,630 1,466 3,075 3,685 3,524	1,421 1,619 1,459 3,170 3,660 3,543	1,446 1,615 1,460 3,249 3,636 3,555	1,496 1,617 1,498 3,313 3,637 3,558	1,531 1,608 1,628 3,346 3,619 3,548	1,568 1,593 1,889 3,376 3,583 3,509	1,592 1,584 2,117 3,418 3,559 3,482	1,610 1,579 2,261 3,462 3,534 3,458	1,626 1,551 2,357 3,465 3,507 3,403	1,399 1,647 1,474 2,962 3,675 3,518	1,446 1,615 1,460 3,249 3,636 3,555	1,568 1,593 1,889 3,376 3,583 3,509	1,626 1,551 2,357 3,465 3,507 3,403	1,626 1,551 2,357 3,465 3,507 3,403
954 955 956 957 958	3,381 3,203 2,879 2,787 2,613 2,561	3,359 3,160 2,864 2,788 2,618 2,550	3,342 3,105 2,850 2,792 2,623 2,538	3,326 3,036 2,836 2,792 2,608 2,518	3,312 2,969 2,813 2,790 2,600 2,506	3,302 2,935 2,806 2,796 2,601 2,504	3,302 2,940 2,810 2,808 2,604 2,506	3,289 2,945 2,798 2,789 2,605 2,500	3,280 2,931 2,795 2,758 2,598 2,492	3,257 2,923 2,801 2,699 2,597 2,495	3,233 2,916 2,798 2,659 2,590 2,501	3,181 2,887 2,781 2,617 2,566 2,487	3,342 3,105 2,850 2,792 2,623 2,538	3,302 2,935 2,806 2,796 2,601 2,504	3,280 2,931 2,795 2,758 2,598 2,492	3,181 2,887 2,781 2,617 2,566 2,487	3,181 2,887 2,781 2,617 2,566 2,487
960 961 962 963 964	2,491 2,503 2,849 2,677 2,687 2,663	2,487 2,498 2,849 2,684 2,696 2,652	2,478 2,490 2,840 2,691 2,693 2,647	2,472 2,483 2,829 2,693 2,694 2,645	2,465 2,473 2,808 2,692 2,690 2,641	2,476 2,484 2,808 2,700 2,687 2,655	2,480 2,497 2,807 2,703 2,696 2,669	2,485 2,514 2,684 2,702 2,693 2,686	2,492 2,553 2,688 2,695 2,690 2,724	2,501 2,725 2,702 2,693 2,680 2,761	2,500 2,781 2,687 2,694 2,678 2,803	2,494 2,811 2,668 2,676 2,663 2,857	2,478 2,490 2,840 2,691 2,693 2,647	2,476 2,484 2,808 2,700 2,687 2,655	2,492 2,553 2,688 2,695 2,690 2,724	2,494 2,811 2,668 2,676 2,663 2,857	2,49 2,81 2,66 2,67 2,66 2,85
966 967 968 969 970	2,902 3,357 3,427 3,418 3,255 2,861	2,937 3,368 3,440 3,432 3,220 2,840	2,969 3,371 3,467 3,452 3,173 2,802	3,004 3,371 3,494 3,465 3,116 2,770	3,056 3,368 3,519 3,459 3,084 2,737	3,094 3,377 3,547 3,460 3,066 2,715	3,136 3,382 3,545 3,458 3,045 2,685	3,164 3,393 3,526 3,459 3,020 2,657	3,229 3,412 3,490 3,449 2,984 2,627	3,287 3,416 3,454 3,387 2,946 2,608	3,326 3,412 3,433 3,351 2,917 2,579	3,334 3,398 3,408 3,298 2,874 2,519	2,969 3,371 3,467 3,452 3,173 2,802	3,094 3,377 3,547 3,460 3,066 2,715	3,229 3,412 3,490 3,449 2,984 2,627	3,334 3,398 3,408 3,298 2,874 2,519	3,334 3,398 3,408 3,298 2,874 2,519
972 973 974	2,462	2,426	2,385	2,341	2,319	2,323	2,332	2,344	2,356	2,371	2,370	2,348	2,385	2,323	2,356	2,348	2,346
		6.78.	DEFENSE I	DEPARTMEN	T MANPOW	ER, CIVI HOUSANDS	LIAN, NOT	SEASONA	LLY ADJU	STED				END	OF PERIOD		
950 951 952 953 954	750 1,047 1,290 1,426 1,241 1,183	744 1,100 1,296 1,410 1,232 1,182	743 1,150 1,300 1,390 1,224 1,181	745 1,182 1,307 1,365 1,219 1,182	754 1,208 1,315 1,342 1,212 1,185	753 1,235 1,337 1,332 1,209 1,187	779 1,249 1,339 1,320 1,202 1,186	859 1,258 1,334 1,308 1,193 1,187	904 1,261 1,328 1,288 1,180 1,180	941 1,270 1,329 1,278 1,177 1,181	967 1,274 1,330 1,253 1,181 1,179	988 1,278 1,330 1,248 1,180 1,167	743 1,150 1,300 1,390 1,224 1,181	753 1,235 1,337 1,332 1,209 1,187	904 1,261 1,328 1,288 1,180 1,180	988 1,278 1,330 1,248 1,180 1,167	988 1,278 1,330 1,248 1,180
956 957 958 959 960	1,165 1,174 1,083 1,084 1,048 1,033	1,165 1,172 1,084 1,078 1,047 1,034	1,165 1,168 1,084 1,076 1,046 1,035	1,168 1,165 1,088 1,075 1,043 1,038	1,171 1,160 1,089 1,074 1,044 1,041	1,179 1,161 1,097 1,078 1,047 1,042	1,184 1,160 1,098 1,078 1,043 1,043	1,187 1,154 1,097 1,071 1,045 1,052	1,180 1,130 1,093 1,064 1,037 1,052	1,183 1,105 1,094 1,060 1,035 1,058	1,179 1,093 1,092 1,056 1,033 1,060	1,176 1,085 1,088 1,052 1,032 1,059	1,165 1,168 1,084 1,076 1,046 1,035	1,179 1,161 1,097 1,078 1,047 1,042	1,180 1,130 1,093 1,064 1,037 1,052	1,176 1,085 1,088 1,052 1,032 1,059	1, 17 1, 08 1, 08 1, 05 1, 03 1, 05
962 963 964 965 966	1,060 1,064 1,042 1,017 1,063 1,246	1,061 1,061 1,040 1,018 1,072 1,260	1,061 1,056 1,039 1,018 1,088 1,268	1,063 1,056 1,039 1,022 1,101 1,273	1,066 1,054 1,036 1,027 1,111 1,274	1,070 1,050 1,030 1,034 1,136 1,303	1,072 1,052 1,031 1,046 1,166	1,076 1,053 1,034 1,055 1,187 1,306	1,067 1,046 1,026 1,045 1,184 1,274	1,069 1,045 1,024 1,052 1,200 1,277	1,070 1,044 1,023 1,060 1,222 1,277	1,066 1,043 1,019 1,057 1,230 1,271	1,061 1,056 1,039 1,018 1,088 1,268	1,070 1,050 1,030 1,034 1,138 1,303	1,067 1,046 1,026 1,045 1,184 1,274	1,066 1,043 1,019 1,057 1,230 1,271	1,06 1,04 1,01 1,05 1,23 1,27
968 969 970 971 972 973	1,267 1,315 1,252 1,146 1,119	1,265 1,316 1,240 1,143 1,117	1,266 1,317 1,224 1,142 1,112	1,267 1,316 1,218 1,141 1,107	1,271 1,312 1,213 1,136 1,090	1,317 1,342 1,194 1,127 1,083	1,334 1,348 1,184 1,129 1,068	1,316 1,327 1,177 1,132 1,073	1,276 1,296 1,169 1,130 1,071	1,275 1,285 1,162 1,128 1,081	1,275 1,272 1,158 1,125 1,083	1,273 1,262 1,152 1,122 1,082	1,266 1,317 1,224 1,142 1,112	1,317 1,342 1,194 1,127 1,083	1,276 1,296 1,169 1,130 1,071	1,273 1,262 1,152 1,122 1,082	1,27: 1,26: 1,15: 1,12: 1,08:
974		465 00	EENSE DE	BARTMENT	DEDGAMA	anune.	SATION, 1	ANT REAC		HIGTER				14			
966		693. 00	PENSE DE	PARTHENT		ONS OF DO		TOT SEAS	JHALLY AD	303160			5,118	TOTAL 5,264	FOR PERI	5,741	21,779
967 968 969 970	1,933 2,166 2,348 2,461 2,545	1,887 2,113 2,237 2,356 2,480	1,967 2,111 2,304 2,429 2,600	1,930 2,146 2,316 2,671 2,536	1,972 2,203 2,315 2,708 2,565	1,992 2,170 2,336 2,539 2,537	2,046 2,333 2,557 2,562 2,524	2,053 2,294 2,528 2,490 2,506	2,014 2,286 2,510 2,481 2,511	2,037 2,355 2,531 2,442 2,480	2,069 2,237 2,413 2,433 2,579	2,198 2,270 2,499 2,492 2,654	5,787 6,390 6,889 7,246 7,625	5,894 6,519 6,967 7,918 7,638	6,113 6,913 7,595 7,533 7,541	6,304 6,862 7,443 7,367 7,713	24,098 26,684 28,894 30,064 30,51
972 973 974	2,713	2,681	2,778	2,625	2,638	2,711	2,651	2,693	2,610	2,636	2,658	2,609	8,172	7,974	7,954	7,903	32,00
		685.	DEFENSE	DEPARTMEN		NEL COMP	PENSATION, DLLARS)	SEASON	ALLY ADJU	STED				TOTAL	FOR PERI	00	
966 967 968 969 970	1,929 2,125 2,295 2,437 2,538	1,949 2,106 2,310 2,434 2,533	1,957 2,139 2,337 2,439 2,531	1,975 2,199 2,337 2,650 2,531	1,988 2,212 2,355 2,716 2,558	2,035 2,225 2,400 2,539 2,524	1,995 2,241 2,448 2,480 2,504	1,993 2,254 2,496 2,473 2,504	2,002 2,282 2,503 2,476 2,519	2,031 2,302 2,471 2,464 2,548	2,078 2,283 2,467 2,490 2,621	2,187 2,266 2,452 2,485 2,649	5,149 5,835 6,370 6,942 7,310 7,602	5,360 5,998 6,636 7,092 7,905 7,613	5,540 5,990 6,777 7,447 7,429 7,527	5,724 6,296 6,851 7,390 7,439 7,818	
972 973 974	2,687	2,642	2,686	2,660	2,571	2,700	2,654	2,669	2,690	2,687	2,666	2,670	8,015	7,931	8,013	6,023	
*	-	688.	MANUFACT	URERS! SH		DEFENSE	PRODUCTS	S, SEASO	NALLY ADJ	USTED				TOTAL	FOR PERI	00	
968 969 970 971 972	2,295 2,318 1,950 1,796 1,475	2,426 2,239 2,005 1,723 1,519	2,348 2,239 2,017 1,671 1,497	2,190 2,312 2,014 1,581 1,509	2,237 2,214 1,972 1,701 1,503	2,133 2,172 1,998 2,055 1,431	2,390 2,155 1,847 1,572 1,489	2,024 2,240 1,911 1,678 1,466	2,145 2,166 1,905 1,463 1,497	2,222 2,126 1,966 1,516 1,509	2,194 2,229 1,837 1,552 1,512	2,258 2,203 1,810 1,438 1,509	7,069 6,796 5,972 5,190 4,491	6,560 6,698 5,984 5,337 4,443	6,559 6,561 5,663 4,713 4,452	6,674 6,558 5,613 4,506 4,530	26,86; 26,61; 23,23; 19,74; 17,91;

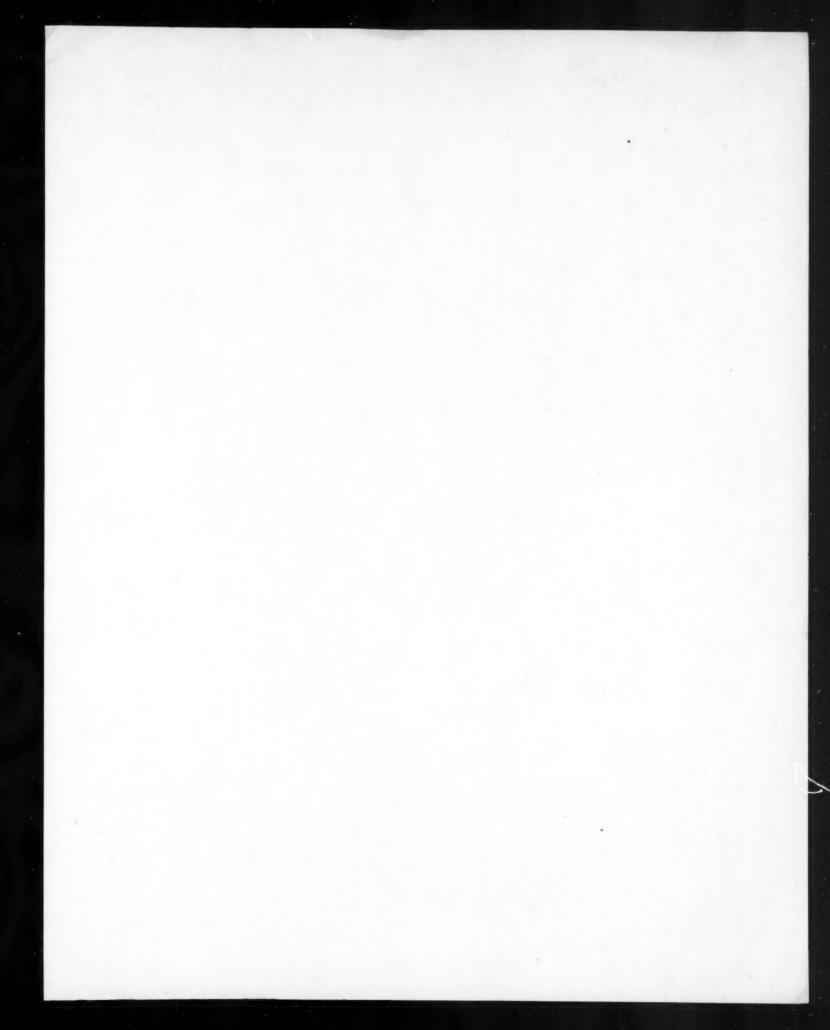
Note: Unless otherwise noted, these series contain no revisions but are reprinted for the convenience of the user.

¹This series contains revisions beginning with 1968.

Appendix C. HISTORICAL DATA—Continued

						Mon	thly							Quar	terly		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	ΠQ	III Q	IVQ	Annual
688.	MANUFACT	URERS' S	HIPMENTS	, DEFENSE		S, 5-HON'		AVERAGE	OF SEASO	DNALLY AD	JUSTED D	ATA					
968 969 1970 1971 1972 1973	2,250 2,081 1,767 1,496	2,273 2,038 1,716 1,488	2,299 2,264 1,992 1,694 1,501	2,267 2,235 2,001 1,746 1,492	2,260 2,218 1,970 1,716 1,486	2,195 2,219 1,948 1,717 1,480	2,186 2,189 1,927 1,694 1,477	2,183 2,172 1,925 1,657 1,478	2,195 2,183 1,893 1,556 1,495	2,169 2,193 1,886 1,529 1,499	2,227 2,135 1,863 1,489 1,531	2,246 2,103 1,826 1,500 1,546					
	1. RATIO	, MANUFA	CTURERS	UNFILLED	ORDERS	TO SHIPME	ENTS, DEF	ENSE PRO	DUCTS, SI	ASONALLY	ADJUSTE	D		AVERAG	FOR PER	100	
1968 1969 1970 1971 1972 1973	10.2 9.9 9.8 9.7 12.3	9.3 10.3 9.4 10.2 11.9	9.3 10.5 9.3 10.4 12.0	9.8 10.0 9.1 11.0 12.1	9.7 10.3 9.2 10.0 12.1	10.5 10.3 8.9 7.9 13.5	8.9 10.2 9.7 10.7 12.7	11.0 9.5 9.3 9.9 13.0	10.4 9.6 9.4 11.5 12.8	10.2 9.6 9.0 11.3 12.6	10.4 9.1 9.5 11.2 12.4	10.1 9.0 9.6 12.1 12.6	9.6 10.2 9.5 10.1 12.1	10.0 10.2 9.1 9.6 12.6	10.1 9.8 9.5 10.7 12.8	10.2 9.2 9.4 11.5 12.5	10.0 9.9 9.4 10.5 12.5
		691. RAT	IO, MANU	FACTURERS HOVING AV	UNFILL	ED ORDERS	TO SHIP	MENTS, D	EFENSE PI	RODUCTS,							
1968 1969 1970 1971 1972	10.2 9.4 9.7 11.8	10.2 9.3 10.1 12.0	10.2 9.3 10.2 12.1	9.8 10.2 9.3 9.9 12.3	9.6 10.3 9.3 10.0 12.4	9.9 10.1 9.3 10.0 12.6	10.1 10.0 9.3 10.2 12.7	10.1 9.9 9.3 10.2 12.8	10.2 9.7 9.3 10.4 12.8	10.2 9.5 9.4 11.1 12.7	10.3 9.4 9.4 11.4 12.5	10.2 9.4 9.6 11.7 12.4					
1974												-					
	693. RAT	IO, MANU	FACTURER	S: INVENT		SHIPMENT (RATIO)	S, DEFEN	SE PRODU	CTS, SEAS	SONALLY A	DJUSTED			AVERAG	FOR PER	100	
1968 1969 1970 1971 1972 1973	3.1 3.3 3.7 2.9 3.1	2.9 3.4 3.5 2.9 3.0	2.9 3.4 3.4 3.0 3.1	3.2 3.3 3.3 3.2 3.1	3.2 3.3 3.3 2.9 3.1	3.5 3.4 3.2 2.2 3.4	3.0 3.6 3.5 2.8 3.2	3.6 3.4 3.2 2.5 3.3	3.5 3.5 3.1 3.0 3.3	3.3 3.5 2.9 2.9 3.3	3.4 3.3 3.0 2.9 3.3	3.3 3.2 3.0 3.2 3.4	3.0 3.4 3.5 2.9 3.1	3.3 3.3 3.3 2.6 3.2	3.4 3.5 3.3 2.6 3.3	3.3 3.3 3.0 3.0 3.3	3.2 3.4 3.3 2.9 3.2
		693. R	ATIO, MAI	NUFACTURE MOVING AV	RS! INVE	NTORIES T	O SHIPME	NTS, DEF	ENSE PRO	oucts,							
1968 1969 1970 1971 1972	3.4 3.4 3.0 3.0	3.3 3.4 3.0 3.1	3.3 3.4 3.0 3.1	3.1 3.3 3.4 2.8 3.2	3.1 3.4 3.4 2.8 3.2	3.2 3.4 3.3 2.8 3.2	3.3 3.4 3.3 2.6 3.3	3.3 3.4 3.2 2.7 3.3	3.4 3.4 3.2 2.7 3.3	3.4 3.4 3.1 2.9 3.3	3.4 3.4 3.0 2.9 3.3	3.4 3.4 3.0 3.0 3.3					

Note: These series contain revisions beginning with 1968.



POSTAGE AND FEES PAID U.S. GOVERNMENT PRINTING OFFICE 375



ALPHABETICAL INDEX—SERIES FINDING GUIDE

	Series title	Series number	Current issue (page numbers)		Historical data d	Series descriptions	Series title	Series	Current issue (page numbers)		Historical data	Series description
			Charts	Tables	(issue date)	(issue date)	00000000	number	Charts	Tables	(issue date)	(issue date)
	cession rate, defense products industries	654	8	21	5/74	4/73	Inventories, manufacturers'	659				
le	rospace industries						Defense products	658	9	22	8/74 1/72	2/
	Manufacturers' new orders from U.S. Government	650	See New				Ratio to shipments, defense products	693	12	26	8/74	2/
	Manufacturers' shipments to U.S. Government Manufacturers' unfilled orders from U.S. Government	689 664	See Ships See Unfil	nents. led orders		. 1	Ratio to shipments, defense products industries	692	12		11/72	2/
							Job vacancy rate, defense products industries	656	8	21	8/73	4/
Ba	ance of payments (defense-related) Cash receipts associated with military sales contracts	696	13	27	9/73	10/73	Layoff rate, defense products industries	655	, 8	21	5/74	4/
	Direct defense expenditures	547 546	13	27 27	9/73 9/73	10/73 10/73		673	10	23		
lu	dget outlays for national defense function	683	See Outl		1 9/13	10/73	Man-hours, defense products industries	6/3	10	23	5/74	4/
							Military manpower, Defense Department	677	10	24	8/74	8/
	sh receipts associated with military sales contracts rilian manpower, Defense Department	696 678	See Bala	nce of pay 24	ments. 8/74	8/68	Military prime contract awards—See Contract awards.					
0	mpensation Payrolls, aggregate weekly, defense products						Net outlays, Defense Department-See Outlays.					
	industries	675	10	23	5/74	4/73	New orders, manufacturers'					
	Personnel compensation, Defense Department	685	11	25	8/74	8/68	Defense products	648 647	7	20	8/74	2/
	ntract awards, military prime						Defense products industries	650	7 8	***	11/72	2/
	Aircraft	626 638	***	16 19	5/74	8/68	From Government, aerospaca industries	030	8	20	4/74	2/
	Combat vehicles	631	***	17	5/74	8/68	Obligations incurred, gross					
	Construction	634		18	5/74	8/68	Defense Department, operations	619		15	4/74	8/
	Contracts under \$10,000	636		19	5/74	8/68	Defense Department, procurement	621	6	15	4/74	8/
	Educational and nonprofit institutions	637		19	5/74	8/68	Defense Department, total	617	6	15	4/74	8,
	Electronic and communications equipment	630 627		17	5/74	8/68 8/68	Dutside Government for national detense	623	6	16	4/74	10,
	Missile and space systems Other hard goods	632	***	18	5/74	8/68	Obligations outstanding, gross unpaid	644		20	4/74	8
	Services	635		18	5/74	8/68	Defense Department, operations Defense Department, procurement	645	***	20	4/74	8
	Ships	628		17	5/74	8/68	Defense Department, total	643	7	20	4/74	8
	Soft goods	633		18	5/74	8/68	Operations, Defense Department					
	Total	625 629	7	16 17	5/74	8/68	Net outlays	681	See Out	lays.		1
	Weapons and ammunition Work outside the U.S.	640		19	5/74	8/68	Obligations incurred	619 644		gations inc		
	Work dusing the O.S.	040			3/14	0,00	Unpaid obligations outstanding Orders—See New orders and Unfilled orders.	044	See Ubit	gations ou	tstanding.	
	efense and space equipment, output	657	Soo Out	nut of def	oneo and ena	ce equipment.	Outlays Budget outlays for national defense function	683	11	25	4/74	10
	efense Department	1	000	1	1	1	Defense Department, operations	681		24	4/74	8
	Gross obligations incurred-See Obligations incurred.						Defence Department progurement	682	11	25	4/74	8
	Gross unpaid obligations outstanding-See						Defense Department, total	680	11	24	4/74	8
	Obligations outstanding.				1		Output of defense and space equipment	657	9	22	8/74	10
	Manpower – See Civilian manpower and Military manpower.						Overtime hours, defense products industries	653	8	21	5/74	4
	Military prime contract awards—See Contract awards. Net outlays—See Outlays.						Payrolls, aggregate weekly, defense products industries	675	See Con	npensation		
	Personnel compensation	685 666		npensation gress payn			Personnel compensation, Defense Department	685		1	1	- 4
	Progress payments outstanding	547		ance of pa			Net outlays	682	See Out			
	The contract of the contract o	-	000 001	1	1	1	Obligations incurred	621		igations in		
			1				Unpaid obligations outstanding	645			tstanding.	
E	mployment	054		l		1	Progress payments outstanding, Defense Department Purchases of goods and services for national defense	666 264	See Gro	ss national	4/74	8
	Accession rate, defense products industries	.654		cession rati	1	1	Translated by goods one derivative in that one delivative in the same of the s	-	-	1	1	
	industries	671	10			4/73	Shipments, manufacturers'					
	Employment, total, defense products industries Job vacancy rate, defense products industries	670 656	10	vacancy r	5/74	4/73	Defense products	688	12	26	8/74	2
	Layoff rate, defense products industries	655	See Lou	off rate.	ate.		Defense products industries	687	12		11/72	
	Man-hours, defense products industries	673	See Ma	n-hours.			Ratio, inventories to shipments, defense products	693				
	Manpower-See Civilian manpower and Military			1	1	1	Ratio, inventories to shipments, defense products industries	692	See Inv	entories.	1	
	manpower. Overtime hours, defense products industries	653	Son Ou	ertime hou		1	Ratio, unfilled orders to shipments, defense products		SI .			
E	xpenditures—See Outlays.	000	Joe UV	1	1	1	Ratio, unfilled orders to shipments, defense products	690	See Un	filled order	S.	
							industries	689	12	26	4/74	2
	ederal purchases of goods and services for national	204										
	defense	. 264	266 PU	Jas riationa	ol product.	1	Transfers under military agency sales contracts	546	See Bal	ance of pa	yments.	
0	ross national product						Unfilled orders, manufacturers'	-				
ĺ	Federal purchases of goods and services for national						Defense products	661	9			
	defense	. 264	5				Defense products industries	664	9 9		7/71	
	Gross national product	200	5				Ratio to shipments, defense products	691	12			
e	National defense purchases as percent of GNP ross obligations incurred—See Obligations incurred.	613	5	14	9/73	10/73	Ratio to shipments, defense products industries	690	12		11/72	
0	ross unpaid obligations outstanding—See Obligations				1		Unpaid obligations outstanding-See Obligations					
*	outstanding.				1	1	outstanding.				1	



